



MATES Computer Science

Senior Capstone Project Bi-Weekly Progress Report

Project Title	Bookish
Team Members	Malia Porter & Caleigh Wlazlowski
Dates Covered by Report	4/8/24 - 4/19/24
Link to Github	https://github.com/caleighwlaz/Bookish

1. Summary of Project

Our project is to create a website for readers to track their reading history, view book and user leaderboards, and possibly get recommendations. The site will allow readers to set goals to reach and add books to their reading list. Users will also be able to keep track of their reading activity and discover new books to read. Through the front-end (Malia), HTML, CSS, and JavaScript will be used to create the website and the design elements. Through the back-end (Caleigh), Python, JavaScript, and MySQL will be used to calculate statistics for each user (such as average pages per book and average pages read per week), manage databases, and allow users to search for books on the website and add them to their lists. The concept of our website is similar to Goodreads with additional features such as book and user leaderboards.

2. Summary of Progress this Period

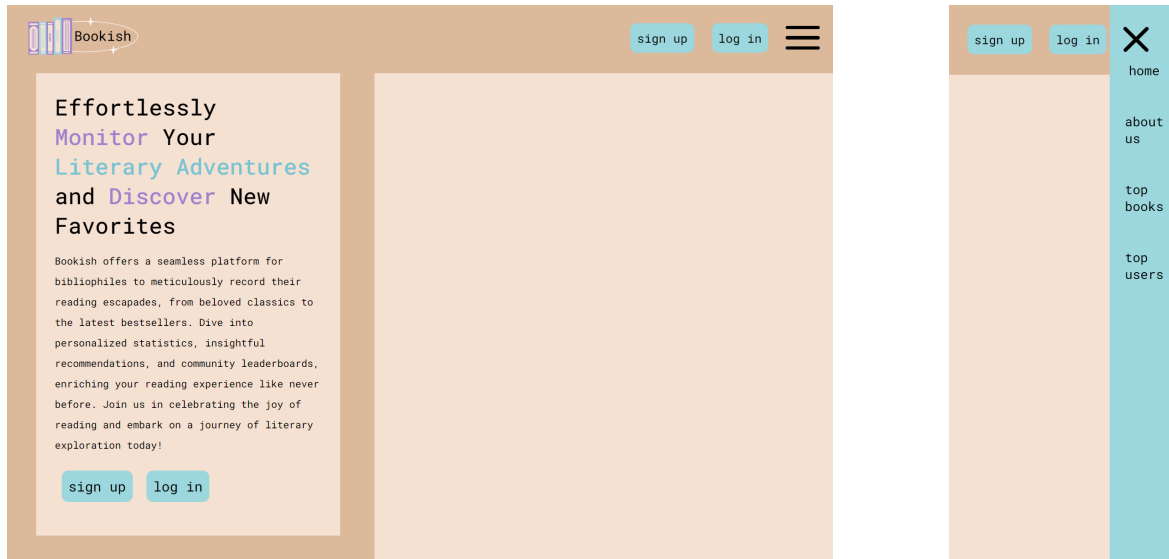
Caleigh researched SQL databases to use, found a way to convert the Excel file into a SQL database on SQLite, started creating a sample book database in Postgres, and continued working on “Back-End Engineer” career path. Malia created the hamburger menu in the header and added a media query to hide the normal navigation links and show the hamburger menu on smaller screens.

3. Detailed Progress this Period, separated by Team Member

Malia	Caleigh
<ul style="list-style-type: none"> followed along with a YouTube tutorial to create the hamburger menu only using HTML and SCSS <ul style="list-style-type: none"> sidebar slides in from the right side when menu is clicked able to focus on the hamburger menu for accessibility menu transitions from a hamburger into an X when clicked Added a media query to show the hamburger menu and hide the normal navigation when the screen size is <1240px 	<ul style="list-style-type: none"> researched SQL databases to use <ul style="list-style-type: none"> ended up picking SQLite because it didn't need an admin code to download and use I also have Postgre for the Codecademy course as well as a back-up in case SQLite doesn't end up working properly found a way to convert the Excel file (book dataset) into a SQL database on SQLite <ul style="list-style-type: none"> ESF Database Migration Toolkit - Pro this was before I tested and kept getting errored out of SQLite SQLite is not currently working, so I did some work in Postgres, and it appears to be going well <ul style="list-style-type: none"> I use Postbird to access Postgres I can only run one query at a time <ul style="list-style-type: none"> if I leave multiple queries, it will only keep rerunning the first one can filter in the queries as well as in the Content tab can add columns in the Structure tab as well as a query can update rows in Content tab might need to download something separate to convert the Excel file to a SQL database because it's a different program (haven't researched it with Postgres yet) started creating a sample book database to upload and test on the website before I upload the

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	<p>full Excel file</p> <ul style="list-style-type: none">continued working on “Back-End Engineer” career path<ul style="list-style-type: none">finished JavaScript Syntax, Part Ifinished Database Basicsstarted Working with Databases
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```
138 .hamburger-menu {
139   $x-width: calc($hamburger-height * 1.41421356237);
140   margin-right: 3rem;
141   display: flex;
142   flex-direction: column;
143   gap: $hamburger-gap;
144   width: max-content;
145   z-index: 2;
146   cursor: pointer;
147   &::before,
148   &::after,
149   input {
150     content: "";
151     width: $bar-width;
152     height: $bar-height;
153     background-color: black;
154     border-radius: 1rem;
155     transform-origin: left center;
156     transition: opacity $animation-timing, width $animation-timing,
157                rotate $animation-timing, translate $animation-timing,
158                background-color $animation-timing;
159     display: none;
160   }
161   input {
162     appearance: none;
163     padding: 0;
164     margin: 0;
165     outline: none;
166     pointer-events: none;
167     &:checked {
168       opacity: 0;
169       width: 0;
170     }
171   }
172   &:has(input:checked) {
173     &::before {
174       rotate: 45deg;
175       width: $x-width;
176       translate: 0 calc($bar-height / -2);
177     }
178     &::after {
179       rotate: -45deg;
180       width: $x-width;
181       translate: 0 calc($bar-height / 2);
182     }
183   }
184   &:has(input:focus-visible)::before,
185   &:has(input:focus-visible)::after,
186   input:focus-visible {
187     border: 1px solid white;
188     box-shadow: 0 0 0 1px black;
189   }
190 }
```

```
<label class="hamburger-menu">
  <input type="checkbox">
</label>
<aside class="sidebar">
  <nav>
    <a href="index.html" id="home">home</a>
    <a href="#" id="about-us">about us</a>
    <a href="#" id="top-books">top books</a>
    <a href="#" id="top-users">top users</a>
  </nav>
</aside>
```

```
5  $bar-width: 5rem;
6  $bar-height: 0.5rem;
7  $hamburger-gap: 1rem;
8  $hamburger-margin: 2rem;
9  $animation-timing: 200ms ease-in-out;
10 $hamburger-height: calc($bar-height * 3 + $hamburger-gap * 2);
```

```
192 .sidebar {
193   position: absolute;
194   right: 0;
195   bottom: 0;
196   padding: calc($hamburger-height + $hamburger-margin + 3rem) 2rem 3rem;
197   transition: translate $animation-timing;
198   translate: 100%;
199   background-color: $blue;
200   color: white;
201   max-width: 10rem;
202   min-height: 100vh;
203   nav {
204     display: flex;
205     flex-direction: column;
206   }
207 }
208
209 .hamburger-menu:has(input:checked) + .sidebar {
210   translate: 0;
211 }
212 @media (max-width: 1240px) {
213   .nav-link {
214     display: none;
215   }
216   .hamburger-menu {
217     &::before,
218     &::after,
219     input {
220       display: inline;
221     }
222   }
223 }
```

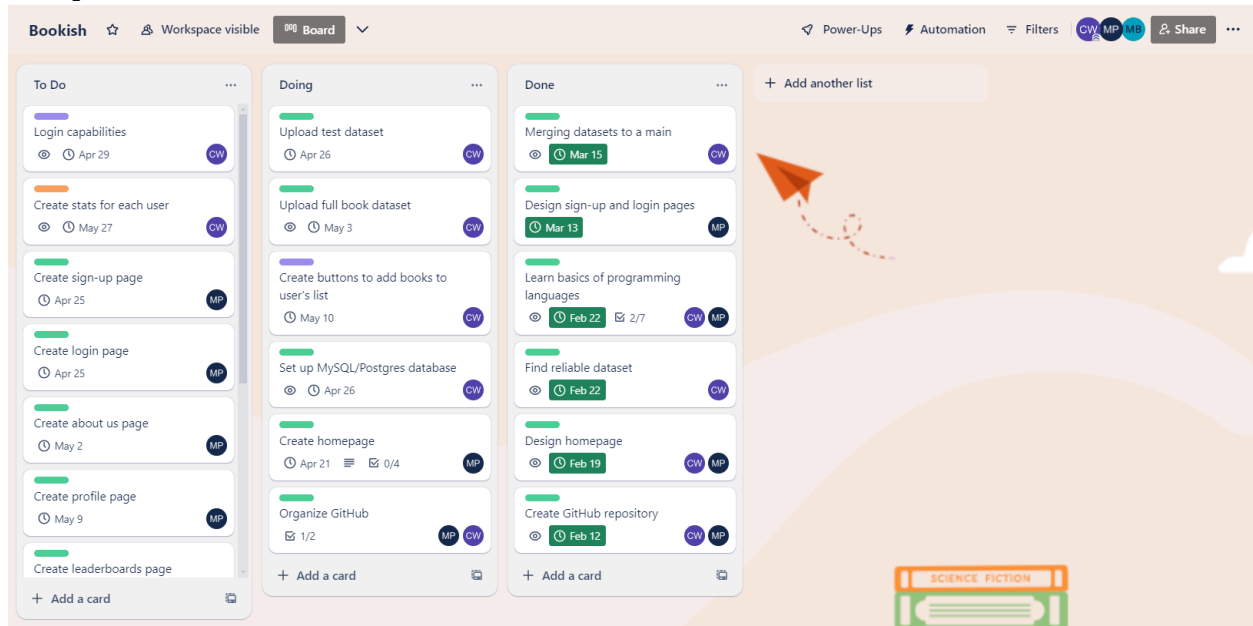
Caleigh: I will be adding more rows, so I have about 20 to work with, but this is what I have right now

title	author	isbn	genre	img_paths
This is Going to Hurt	Adam Kay	9780000000000	Medical	dataset/Medical/0000001.jpg
Thinking, Fast and Slow	Daniel Kahneman	9780000000000	Medical	dataset/Medical/0000002.jpg
When Breath Becomes Air	Paul Kalanithi	9780000000000	Medical	dataset/Medical/0000003.jpg
The Happiness Trap	Russ Harris	9780000000000	Medical	dataset/Medical/0000004.jpg

4. Difficulties Encountered this Progress Period

Malia	Caleigh
<ul style="list-style-type: none"> there was an extra space/link between the buttons on the left side of the page that I couldn't get rid of in the HTML <ul style="list-style-type: none"> had to set the font size of the div to zero and set the font size of the buttons a horizontal scroll bar was appearing and showing the sidebar when the hamburger menu wasn't clicked <ul style="list-style-type: none"> set overflow-x to hidden on the body 	<ul style="list-style-type: none"> SQLite <ul style="list-style-type: none"> tried to make a sample table to attempt to connect to the website but it kept erroring out now the program wouldn't open without reinstalling Postgres <ul style="list-style-type: none"> tried to insert values into the table, but it just kept telling me that the table already exists and would not add the values to it <ul style="list-style-type: none"> would only run the first query, I can only do one query at once had to manually add it through the Content tab <ul style="list-style-type: none"> found out that you can't enter multiple rows at once, it will only save the last one after reloading Postbird, it worked

5. Updated Trello Board and Discussion



<https://trello.com/b/0IK9w4IL/bookish>

“Upload test dataset” was added to test the website, put into **Doing**, and has a due date of April 26. “Set up MySQL/Postgres database” was moved into **Doing** and pushed out to April 26. “Upload full book dataset” and “Create buttons to add books to user’s lists” both had their dates pushed out. “Organize Github” was moved into **Doing** because that is something that needs to be focused on throughout the rest of the semester.

6. Tasks to Be Worked on in Next Progress Period

Malia	Caleigh
<ul style="list-style-type: none"> finish the homepage <ul style="list-style-type: none"> add more media queries, add image(s) to the right side, and clean up sidebar create sign-up and login pages learn JavaScript basics 	<ul style="list-style-type: none"> continue to work with Postgres and see if it will for the website <ul style="list-style-type: none"> if not, I can try SQLite again or MySQL, which everyone seems to like upload sample/test book database to website <ul style="list-style-type: none"> attempt to format books change img paths to actual path in order to upload book covers to website properly continue “Back-End Engineer” career path on Codecademy <ul style="list-style-type: none"> specifically the courses on working with databases

	<ul style="list-style-type: none">• update README file
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7. Additional Information